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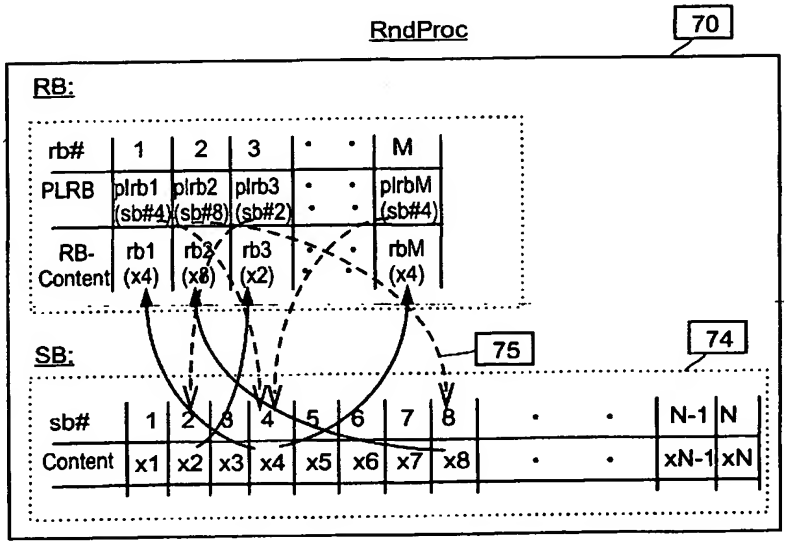
(54) Title: SECURE COMMUNICATION SYSTEM AND METHOD USING SHARED RANDOM SOURCE FOR KEY CHANGING



(57) Abstract: Apparatus for use by a first party for key management for secure communication with a second party, said key management being to provide at each party, simultaneously remotely, identical keys for said secure communication without transferring said keys over any communication link, the apparatus comprising: a datastream extractor (70), for obtaining from data exchanged between said parties a bitstream, a random selector (72) for selecting, from said bitstream, a series of bits in accordance with a randomization seeded by said data exchanged between said parties, a key generator (54) for generating a key for encryption/decryption (52) based on said series of bits, thereby to manage key generation in a manner repeatable at said parties.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL02/00571

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : H04L9/08; H04L9/28
US CL : 380/278
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 380/21, 28,30,46,49,278; 707/201; 375/356

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,375,169 A (SEHEIDT et al.) 20 December 1994 (20.12.1994), abstract, , Fig.3a, col. 5, line 56 throuigh col 6, line 2, col. 6, lines 14-67, col. 8, lines 31-52, see also claims 1 and 2...	1-4,19-23,37-39 --- 5-18,24-36,40-48
Y	5,923,758 a (KHAMHARA et al.) 13 July 1999 (13.07.1999), abstarct, Fig.,, col. 2, line 62 through col. 3, line18, Fig.2, col. 3, lines lines 19-67 , col. 5, line 39 through col. 6, line 27.	5-18, 24-36,40-48
Y,E	20020156798 A1 (LARUE et al.) 24 October 2002 (24.10.2002), the entire document)	5-18,24-36,40-48

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Continuation of B. FIELDS SEARCHED Item 3:
WEST , ProQuest, Dogpile: Serch terms: key adj management near5 randomi$6 and symetric adj key or split adj key and synchr$7, Key adj agreement